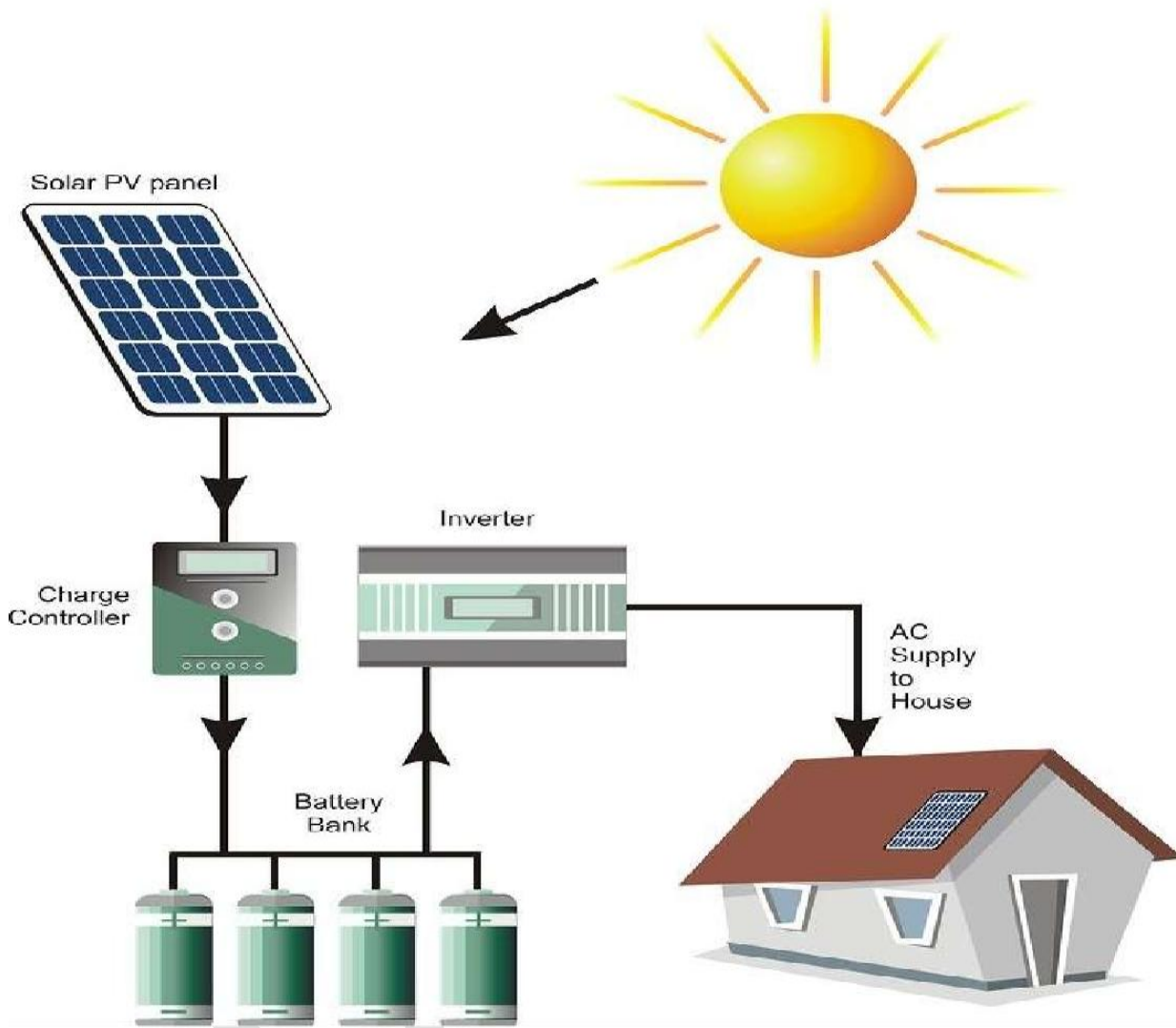


**DRAFT INDENT FOR ARRANGING RATE CONTRACT FOR SUPPLY,  
INSTALLATION AND COMMISSIONING OF OFF- GRID SOLAR POWER PLANTS  
(WITH BATTERY BACK UP) OF CAPACITY 1KILOWATT TO 3 KILOWATT IN THE  
STATE OF HARYANA**



**NEW AND RENEWABLE ENERGY DEPARTMENT, HARYANA  
HARYANA RENEWABLE ENERGY DEVELOPMENT AGENCY (HAREDA)  
Institutional Plot No. 1, Akshay URJA BHAWAN,  
Sector 17, Panchkula (Haryana)**

**A. BRIEF DESCRIPTION OF RATE CONTRACT ITEM:**

Sr. No.	Description of Stores	Quantity ( tentative)	Place of Delivery
1	Supply, Installation, Commissioning of Off-Grid Solar Photovoltaic Power Plants of capacity 1 Kilowatt to 3 Kilowatt with 07 years' warranty of the complete system.	350 nos.	Anywhere in Haryana/ Chandigarh

The detailed technical specifications/ description of the above stores are available at **Annexure-I** of this document.

**B. DETAILS OF WORKS:**

Annual Rate Contract for design, Supply, Erection, Testing & Commissioning of 350 nos. of Off- Grid Solar Power Plants of capacity 1 kilowatt to 3 kilowatts with battery bank including comprehensive maintenance for a period of 07 years at various places in State of Haryana.

**C. THE SCOPE OF WORK SHALL ALSO INCLUDE THE FOLLOWINGS:**

- a. The scope of work includes Supply, Installation, Commissioning of Off-Grid Solar Photovoltaic Power Plants including 07 years' warranty of the complete system at locations anywhere in the State of Haryana as directed by New and Renewable Energy Department (DNRE) at sites/ beneficiaries identified by DNRE as per the following specifications. (Complete Off Grid Solar PV Power Plant Installations at site include electrical house wiring till user end points as required as per every site).
- b. The bidder can bid for complete capacity. Bids for partial capacity will not be accepted.
- c. Detailed planning for time bound smooth execution of Project;
- d. The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- e. Supplier shall be responsible for delivering all the equipment at site under his own arrangement within the stipulated time frame.
- f. Performance testing of the complete Project;
- g. After sales service through service center(s);
- h. Coverage of risk liability of all personnel associated with implementation and realization of the Project;
- i. Basic training to user on the various aspects of design and maintenance of the plant after Commissioning of the Project.

- j. The Successful Bidder shall maintain sufficient inventory of the spare parts to ensure that the Project is functional during the period of warranty period.
- k. The Successful Bidder shall run the Project on trial basis and shall closely monitor the performance of the Project before handing over the same.
- l. SAFETY MEASURES: The bidder shall take entire responsibility for electrical safety of the installation(s) including connectivity with the grid and follow all the safety rules & regulations applicable as per Electricity Act, 2003 and CEA guidelines etc.

The detailed technical specification/ description of the above stores is available at **Annexure-I** of this document.

**D. SPECIFIC TERMS & CONDITION/ ELIGIBILITY CRITERIA RELATED TO ABOVE STORE:**

**1. Technical Eligibility Criteria:**

- i. The Bidder should be either a body incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto or proprietary/partnership firm/LLP firm. A copy of certificate of incorporation shall be furnished along with the bid in support of above.
- ii. The bidder should have also a valid ISO 9001:2015 Certificate issued from any NABCB accredited certification body in the field of quoted item and copy of valid ISO 9001:2015 Certificate must be attached with offer.
- iii. The bidder should be a manufacturer of solar modules/solar cells/ Lithium battery/ Lithium battery cell or System Integrator.
- iv. In case of System Integrator who do not manufacturer any of the major component viz solar modules, inverter, LiFePO<sub>4</sub> battery cells, to be deployed in the plant, the bidder has to submit tie-up certificate from the manufacturer of the component/s, to be deployed in the plant, in the Performa-I along with undertaking by manufacturer in Performa-II.

However, if system integrator is manufacturer of any of the major part (solar modules/inverter/ LiFePO<sub>4</sub> battery) then it is not required to submit the undertaking (in Performa-II) related to that particular item/device.

- v. Domestically manufactured PV Module with domestically manufactured solar PV cells should be used. The PV modules must have BIS certificate for IS 14286 & IS 61730 (Part-I, Part II). PV modules must meet the latest specifications of MNRE and the models and Manufacturers of PV Modules shall be included in the List of Models and Manufacturers for Solar PV Modules empaneled by MNRE as per its ALMM order (and shall also be valid at the time of supply of material) as amended from time to time. The indigenous make inverter /PCU should be tested from the MNRE approved test centers/ NABL/ BIS/ IEC accredited/authorized testing- calibration laboratories.
- vi. If manufacturer claims the MSME of Haryana, then the test report of solar module/ inverter/solar cell/LiFePO<sub>4</sub> battery/ LiFePO<sub>4</sub> cells, as the case may be, shall have to provide in the name of bidder with the bid. Only the manufacturer of solar module/ inverter/solar cell/LiFePO<sub>4</sub> battery/ LiFePO<sub>4</sub> battery cells, shall be eligible for MSME benefit.

- vii. All the Test Certificate(s)/BIS/IEC certification should be valid on the closing date of the tender and also at the time of supply.

## 2. Experience and Past Performance

Bidder should have successfully completed Supply, Installation & Commissioning of Off-Grid Solar Power Plants / Grid Connected Rooftop Solar Power Plants of minimum aggregate capacity of 250 Kilowatt to any State / Centre Govt. Agency / Department/ Organization/ autonomous body/ private sector duly verified by State Nodal Agency (SNA)/any govt. agency from 01.04.2023 to the closing date of the bid. Experience Certificate without verification of SNA/ Govt. agency will not be accepted.

The bidders are requested to enclose the proof of completion of the required capacity projects duly certified by SNA/any Government agency. **(Performa-III)**

**(Document to be uploaded: Only Commissioning Certificates certified by SNA or any Government agency supporting the claim. Bidders shall not upload the work orders)**

## 3. Financial Eligibility Criteria:

- i. The bidder should have minimum average annual turnover of Rs. 225.00 Lakh in the last three years, ending 31<sup>st</sup> March 2026.

*(Document to be uploaded: The annual Turnover Certificate in given format (Performa-IV) duly certified by CA).*

- ii. The bidder should have positive net worth in the last three Financial Years.

*(Document to be uploaded: Certificate in given format (Performa-V) certified by CA.)*

- iii. The rates quoted should be inclusive of GST (@8.9%) and all other charges etc. (as applicable).

## 4. Delivery period (includes supply, installation & commissioning)/Time Schedule, Penalty/Liquidated Damages:

- a. The time schedule for Delivery period (includes supply, installation & commissioning): -Three months from the date of placement of work order.

- i. Although the supplier shall give the date of inspection in the inspection offer which should reach in the office of indenting Department at least 07 days before the date of inspection proposed by the supplier. It shall be the sole responsibility of the supplier to complete the commissioning of systems in the defined time period. Time period is the essence of the contract.

- ii. After receipt of call for inspection with date for the inspection, the material shall be inspected by the Director, New & Renewable Energy Department/ HAREDA/indenting officer or a committee authorized for this purpose. Material shall be dispatched after acceptance of the same by the Inspection Committee at the premises of the firm.

- b. Before placing the work order, it will have to ensure that site is clear and feasible in all respect for installation of system/ plant. However, it will be the sole responsibility of the supplier to be satisfied with the site through visit under intimation to PO/APO of the district within 30 days of placing of work order. Request,if any, received from the supplier for any extension on ground of issue of site clearance after above said period will be out rightly rejected

## 5. Warranty: -

- i. The Warranty period shall be seven (07) years for complete system from the date of commissioning and handing over of the system. The contractor shall rectify defects developed in the system within Warranty period promptly.
- ii. The Solar Module(s) to be warranted for free from the defects and/or failures for a period of twenty-five (25) years from the date of commissioning of the system
- iii. The predicted electrical degradation of power generated not exceeding 20% of the minimum rated power over the 25-year period and not more than 10% after ten years' period of the full rated original output.

The procedure to rectify the complaint/service to be provided during warranty period is as follows:

During the warranty period, the firm shall ensure proper functioning of the systems and complaint, if any, forwarded to the supplier against the system, will have to be attended within 72 hours of forwarding such complaints. The procedure to rectify the complaints shall be as under:

- a. The notice through E-mail/hard copy to rectify the complaints shall be issued by the HQ/district officer/User to the supplier with copy to the New & Renewable Energy Department/HAREDA. This shall be followed by two reminders on 3 days' intervals each. The district office shall maintain proper record of the complaints.
  - b. In case of failure to do so, penalty @ 0.1 % of the system cost per day (subject to max. 10% of the cost) after expiry of 07 days shall be imposed. If the firm does not attend the complaint within the maximum penalty period, then the system may be got repaired/ replaced from the performance security amount. In case whole performance security amount is utilized and complaint/s are still pending then an online / registered notice will be sent to the firm to attend the complaint and if failed to attend the complaint within 7 days then firm may be blacklisted and a legal proceeding may be initiated against the firm for breach the agreement. If maximum penalty has been imposed, then the firm shall have deemed to be considered as unfit to participate in all the tenders floated by New & Renewable Energy Department/HAREDA in future for a period to be decided by competent authority, effective from the date of communication to be conveyed by New & Renewable Energy Department/HAREDA in written and shall be treated as unsatisfactory performer.
- iv. DGS&D/New & Renewable Energy Department/HAREDA/the consignee will have the liberty to get the sample for the item(s) supplied tested from any of the Govt. approved laboratory at any time during the installation or warranty period to ascertain the performance of the item(s) as per DNIT specifications. If during the lab test, sample fails then supplier has to repair/ replace the defective systems within 15 days of issue of such notice. If on the request of the supplier more than one samples are drawn for lab test and any one of them fail the lab test, bidder has to replace all the defective system

at his own cost.

- v. The Contractor/supplier shall continue to provide spare parts for at least two years after the expiry of warranty period at the users cost. If the contractor fails to continue to supply spare parts and services to users, then New & Renewable Energy Department/HAREDA/DGS&D shall take appropriate action against the firm which can be to ban the supplier for participating in future tenders.

## 6. Terms and Condition for Payments

The payments shall be made by the indenting department/organization as per the following terms and conditions:

- i. **50% payment** on supply of duly inspected material on submission of bill and material receipt signed by the supplier, user and PO/ APO of the respective district.
- ii. **40% payment** after installation of the system supported with Joint Commissioning Report signed by Supplier, User & P.O./A.P.O. of the concerned district along with bill & photographs of complete system.
- iii. **10% payment** to be released on completion of 07 years from the date of commissioning of the plant, on submission of satisfactory performance report of the systems duly certified by the concerned PO/APO and user OR The said amount may be released against submission of bank guarantee of equal amount valid for seven years from the date of commissioning of the plant.
- iv. **Income Tax shall be deducted at source as per rules.**

## 7. Other Terms and Conditions

- a) The price quoted should be FOR anywhere in the State of Haryana/Chandigarh inclusive of all taxes and duties, custom duty, excise duty, service tax, sales tax, C.S.T., local taxes, GST, Income Tax, Surcharge on income tax etc. if any, including 07 years warranty (or as notified in the bid) of the complete system/ plant. A supplier/ contractor shall be entirely responsible for all taxes, duties, license fees, etc. All taxes payable as per Government income tax & service tax norms will be payable by the contractor. If any new tax/ duty is levied during the contract period the same will be borne by the firm exclusively. TDS will be deducted from the payment of the contractor as per the prevalent laws and rules of Government of India and Government of Haryana state in this regard.
- b) Material shall be strictly as per DNIT specifications. If there is any left out specification, the same shall be considered as per the latest specifications applicable as per MNRE/ BIS/International Standards.
- c) In case of any ambiguity in interpretation of any of the clauses/ provision of the said rate contract/DNIT, the decision of the Director, HAREDA or Director Supplies & Disposals Department Haryana shall be final and binding.
- d) It shall be the sole responsibility of the contractor to get verified the quality & quantity of the supplied material at the site of delivery.

- e) Contractors, wherever applicable, shall after proper painting, pack and crate all the equipment in such manner as to protect them from deterioration and damage during rail and road transportation to the site and storage at the site till time of installation. Contractor shall be held responsible for all damage due to improper packing/handling.
- f) The goods supplied under the contract shall be fully insured against loss or damage incidental to manufacture or acquisition, transportation, shall be included in the bid price.
- g) DGS&D may at any time terminate the contract by giving written notice to the contractor without compensation to the contractor, if it becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to the NRE/HAREDA.
- h) NRE/HAREDA/DGS&D, may by written notice sent to the supplier, terminate the contract, in whole or in part at any time for its convenience.
- i) To assist in the examination, evaluation and comparison of bids the DGS&D may at its discretion ask the bidder for a clarification of its bid. The request for clarification and the response shall be in writing.
- j) At any time prior to the submission of the tender or prior to the opening of the technical bids, the DGS&D may, for any reason, whether at its own initiative or in response to a clarification requested by the Bidder, modify the Tender documents by amendment/corrigendum.
- k) Any material /instrument required to complete /successful running of the project which is not mentioned in the DNIT will be provided by the bidder in the quoted rates only and no additional payment shall be made.
- l) Not more than one tender should be submitted by one contractor or by a firm of contractors for the same work.
- m) Under no circumstances will a father or his son or their close relation or the partner of one firm be allowed to tender as separate tender. A breach of this condition will cause the tenders of such parties liable for rejection, forfeiture of their earnest money and the firm may be black listed.

The firm (s) tendering shall clearly mention in their tender whether any of the close/near relative of their management/management of sister concerned firms is in the employment of the HAREDA/Department of New & Renewable Energy, Haryana and in case their close/near relative is in employment of the HAREDA/Department of New & Renewable Energy, Haryana then his/her name, designation and place of posting to be mentioned.

If the tendering firm do not disclose and furnish the correct information as required in above clause, then his earnest money and/or Performance Security Deposit may be forfeited and in case the contractor has been awarded the work, the same may be cancelled. For concealing any information, the firm may be black listed.

**Note:**

*The word "Close/ Near Relative" mentioned in the above clause means father, mother,*

*brother, sister, brother-in-law, sister-in-law, daughter-in-law, daughter, father-in-law, mother-in-law, son, son-in-law, first cousin of self/spouse, spouse, father-in-law and mother-in-law of son/daughter.*

- n) Income Tax/Cess will be deducted at source from contractor' bills/dues in accordance with latest Govt. orders from time to time. The contractor will have no objection to this effect.
- o) The successful bidder shall supply all technical literature and drawing considered necessary for the installation, operation and maintenance of the equipment and its fittings.
- p) EMD is liable to be forfeited in case of evidence of cartel formation by the bidder(s). Further, in case where cartel formation amongst the manufacturers-suppliers is apparent, complaint shall be filed with the Competition Commission of India and/or other appropriate forum. EMD is liable also to be forfeited in case of submitting forged/false/fabricated documents.
- q) DGS&D reserve the rights to verify the claimed capacity of the bidder, at any stage, from their own or through a third party. Bidder/successful supplier will have to extend all cooperation. If the claim of the bidder is found negative, then DGS&D may consider reject/cancel the bid/contract.
- r) Bidder who is manufacturer of solar module/ inverter/solar cell/LiFePO<sub>4</sub> battery/ LiFePO<sub>4</sub> battery cells (to be used in the system) and manufacturing the said item (s) in its unit and having valid test report of, tested as per MNRE, GOI latest guidelines/BIS for minimal technical specifications of the tender document in its own name (the bidder) issued by MNRE/NABL/IEC accredited testing center shall be treated as manufacturer for getting the benefits of concession under MME/MSME policy. The test report shall be issued by the date of closing of the tender and shall be valid as on date of opening of the technical bid. The bidder shall have manufacturing facility of the said item, with testing facility, in its unit.  
  
(Documents to be uploaded: Test certificate of the component manufactured by bidder (i.e. solar module/ inverter/solar cell/LiFePO<sub>4</sub> battery/ LiFePO<sub>4</sub> battery cells) in the name of bidder).
- s) Grievance redressal Mechanism for participating Bidders/Firms in the e-procurement of the State will be as per vide GO No. 2/2/2016-41-B-II dated 25.7.2016 by Department of Industries & Commerce, Haryana. All the bidders/Firms who want to make any representation/ complaint against any issue related to their technical scrutiny of the bids may do the same within 5 working days (up to 5.00 PM of the fifth working day) of the date of issue of letter/intimation regarding their as per NIT/Not as per NIT status. They have to ensure that their communication is delivered/reached within 5 working days and delay in postal will not be counted as a valid reason.
- t) No representation/complaint in whatsoever manner from the bidders/firms will be entertained after the opening of financial bid.

## 8. Instructions to Bidders

- i. Bid for arranging the rate contract for design, supply, installation, testing & commissioning of Off-Grid Rooftop Solar Power Plants with battery bank for tentative aggregated capacity as given above. The detailed bid document can be viewed and downloaded from the web-site (to be given by DGS&D at the time of floating e-tender)
- ii. The Bidder is advised to read carefully all instructions and conditions appearing in Bid document and understand the scope of work fully. All information and documents required as per the Bid document must be furnished with bid. Failure to provide the information and/or documents as required shall render the bid unacceptable for evaluation of technical bid. All bidders qualifying technical stage shall be treated at par. Financial Bid of Bidder qualifying at technical stage only shall be opened.
- iii. Bidder shall be deemed to have examined the Bid document, to have obtained information in all matters whatsoever that might affect the carrying out of the works in line with the scope of work specified in the Bid document at the bid price and to have satisfied himself of the sufficiency of his bid. The Bidder shall be deemed to know the scope, nature and magnitude of the works and requirement of materials, equipment, tools and labour involved, wage structures and as to what all works Successful Bidder shall have to complete in accordance with the Bid Document irrespective of any defects, omissions or errors that may be found in Bid document.
- iv. Bidders having been blacklisted by HAREDA or by any State Govt. / PSU/Central Govt., for whatever reasons, shall not be eligible/ allowed to participate in this Bid.
- v. Bidder shall not be placed under the Negative List of MNRE as on the tender closing date.
- vi. The bidding process is for arranging the rate contract for tentative 600 kWp aggregated capacity of Off- Grid Solar Power Plants (with battery bank) with seven years' warranty of complete plant/s at various locations in the state of Haryana. However, total capacity as indicated above may go up to 1.5 times of tendered capacity, if required. Successful bidders will have to unconditionally agree to the additional quantum beyond the tendered capacity under the same terms and conditions.
- vii. Bidder must meet the eligibility criteria independently as a company. Consortium of Companies is not allowed in any form. Bidder will be declared as a Technically Qualified Bidder based on meeting the eligibility criteria and as demonstrated based on documentary evidence submitted by the Bidder in the Bid.
- viii. The Successful Bidder shall be required to establish at least one Service Centre in the division of installation of Solar Power Plants.
- ix. The Bidders shall have to submit their bid and other required relevant documents/ certificates, if any; online only as per time schedule (Key dates). Bid other than online will not be accepted by the Nodal Agency.

- x. Bidder/firm having common director with the bidder should have not been debarred/blacklisted by any Govt. Deptt's / organization/ PSU's / institutions/ agencies/ autonomous Organizations/Ministry of Corporate Affairs. If any bidder provides false information regarding debarred /blacklisted or conceals the facts in this regard, Nodal agency reserves the right to forfeit both EMD & Performance Bank Guarantee of the bidder, to black list the bidders and also may cancel the contract.
- xi. The Bidder should have valid GST & PAN registration certificate. A copy of which should be enclosed.
- xii. The past performance of the firm/sister concern firm shall be considered while evaluating the technical bids. If bidder has poor record for supply & installation or for providing after sales service/ maintenance, then bidder may be treated as not technical eligible.
- xiii. The bidder must submit all the formats as per Annexure-IA.

**Note: The Guidelines & Policy for Procurement issued by Government of Haryana, as applicable shall also be incorporated by the Supplies & Disposals Department.**

**DETAILED TECHNICAL SPECIFICATIONS FOR THE SOLAR POWER PLANTS****A- General Technical Specification:**

The standalone solar photovoltaic power plant comprises of solar PV modules of given capacity, with battery bank for 2 days' autonomy, PCU with necessary control electronics, interconnecting wires/ cables, module mounting structures, necessary grounding /earthing etc.

<b>Component</b>	<b>1 kW System</b>	<b>2 kW System</b>	<b>3 kW System</b>
<b>Daily Generation</b>	~4 to 4.5 Units (kWh)	~8 to 9 Units (kWh)	~12 to 14 Units (kWh)
<b>Panel Capacity</b>	1000 Wp	2000 Wp	3000 Wp
<b>Inverter (PCU)</b>	1.5 kVA / 48V	3 kVA / 48V	5 kVA / 48V
<b>Battery (Lithium) Bank</b>	200 Ah @ 48V (9.6 kWh)	400 Ah @ 48V (19.2 kWh)	600 Ah @ 48V (28.8 kWh)

**B- Minimal Technical Requirements/ Standards:****1. SPV MODULES:**

- (i) Only indigenous modules (Both cell and Module) of reputed brand (IEC/BIS Tested) shall only be used in the project. The wattage of each module should be at least 250 Wp of 72 cell and open circuit voltage of the PV modules under STC should be at least 42.0 Volts. The module efficiency should not be less than 15% and the fill factor should not be less than 0.70.
- (ii) Crystalline high power/efficiency cells of minimum 19.5 % shall be used in the Solar Photovoltaic module.
- (iii) The PV modules will be warranted for a minimum period of 25 years from the date of supply. (Output wattage should not be less than 90% at the end of 10 Years and 80% at the end of 25 years.
- (iv) The terminal box on the module shall be designed for long life out door operation in harsh environment should have a provision for opening for replacing the cable, if required.
- (v) The offered module shall be in accordance with the requirements of MNRE.
- (vi) The module should be tested according to latest edition of IEC 61215 edition II / IS 14286 for Crystalline cell. The bidder shall submit appropriate valid test certificates. The minimum validity of test report should be till March 2020.
- (vii) PV modules must qualify to IEC 61730 Part 1- requirements for construction & Part 2 - requirements for testing, for safety qualification. The bidder shall submit

appropriate valid test certificates.

- (viii) The offered Solar module performance test report issued from authorized MNRE/NABAL test lab should be submitted.
- (ix) Protective devices against surges at the PV module shall be provided. Low voltage drop bypass diodes shall be provided and if required, blocking diode(s) may also be provided.
- (x) The peak power point voltage and the peak power point current of any supplied module and/or any module string (series connected modules) shall not vary by more than 2 (two) per cent from the respective arithmetic means for all modules and/or for all module strings, as the case may be.
- (xi) IDENTIFICATION AND TRACEABILITY  
Each PV module must have sticker inside the module with the following information:
- (i) Name of the manufacturer of PV Module
  - (ii) Month and year of the manufacture of module
  - (iii) Made in India
  - (iv) Unique Serial No and Model No of the module
- (xii) Following data maybe provided out site in such a way that it should not pull out during harsh environmental condition)

Peak Wattage,  $I_m$ ,  $V_m$  and FF for the module

**Test reports/ certificate from IEC/NABL/MNRE accredited laboratory to be mandatorily enclosed for relevant IEC/equivalent BIS Standards.**

## 2. BATTERY- Lithium ferro Phosphate (LiFePO<sub>4</sub>):

The battery should Lithium Ferro phosphate (Lifepo<sub>4</sub>) having capacity motioned in the chart at standard conditions. The battery Voltage & AH can be changed keeping the overall KWH same. The voltage selection should be close to  $V_m$  of combinations of modules having 72 cells. The configuration of battery assembly should be as per requirement of capacity. The cell should be prismatic type having capacity not less than 40 Ah The other feature of the battery should be:

Sr No.	Description	Specification
1	Battery Configuration minimum cell capacity	3.2V- 40 AH; LiFePO <sub>4</sub>
2	Working Temperature Range (both for charging & discharging)	0-60 Deg C
3	Storage Temperature Range	@ 0-40 Deg- 6 months
4	Cycle Life (Full charge to full discharge @ 25 deg C before capacity of battery falls below 75%)	more than 3000 Cycles
5	Type of Cell	Prismatic

The Lithium iron phosphate battery needs a very good "Battery Management Systems" BMS to ensure the proper charging and discharging of each cell of battery with temperature compensation. This battery also needs constant current and constant voltage charging

methodology related to upper voltage limit of battery. BMS primary focus is therefore on the safety and the protection of the battery pack, to minimize the risk of sudden failure and to maximize the life cycle of the battery. The secondary function of the BMS is to perform battery diagnosis, such as state of charge (SOC) estimation, state of health (SOH) estimation and state of power (SOP) estimation. Hence a very good battery management system to be incorporated and got it tested with battery from MNRE/NABAL accredited lab as per IEC/BIS standard. The BMS of the LFP battery must also communicate with PCU in some standard protocol like RS485/ 232 or CAN so that PCU can adapt to requirements of battery and extend its life. Communication between PCU and BMS and the compatibility of 2 should be ensured.

**The Valid test report as BIS of at least 3.2-volt 40 Ah cell from MNRE/NABAL accredited lab should be submitted along with tender.**

### **3. POWER CONDITIONING UNIT (PCU) CUM INVERTER:**

The Power conditioning unit (PCU) should have **inbuilt** charge controller and Inverter of capacity & ratings as specified in the Table for various capacity of Solar Power Plants.

The PCU will have following features:

The PCU should be dual input type, Bi-directional converter, synchronized with Grid Hybrid type such that the Input PF is close to 0.95 with Low THD where under normal condition the input is fed from a SPV panel and in the absence of SPV power or low SPV power conditions an external AC source can be used for battery charging at C-10 rates so as to reduce the charging time. However, the charger circuit must communicate with BMS and control charging profile keeping in mind the SOC of each cell, the charging rate will thus start tapering till charge completion and the State-of-charge (SOC) shall also be available locally on display as well as remotely (if required).

In case the PV power generated at any instant of time is more than the batter charging power required, this excess PV power shall be used to share the AC load the output of the Inverter output.

All these operations should be automatic. When battery bank is fully charged, the PCU should have the feature to feed the power generated from solar to load and draw the additional power from main supply to meet the load requirements in the case load is more than solar energy produced. Thus the electricity consumption from grid shall be reduced.

Solar-Hybrid MPPT charger PCU. The synchronization of BMS and PCU is important aspects and it must be ensured. Considering the importance of this aspect the firm can choose the battery voltage keeping the total watt-hour capacity same.

- i. Output voltage 230V+2% of modified/ pure sine wave for single phase PCU & 415 V +2% for three phase PCU.
- ii. Output frequency: 50 Hz+0.5 Hz
- iii. THD (Current): less than 3% for non-linear load
- iv. Efficiency: >85% of PCU at full load capacity
- v. Indicator:  
Array charger on

Battery charging  
Inverter ON  
Load on solar/ battery  
Grid charger on  
Load on Grid  
Grid on Fault  
Xii Display Parameters  
Charging Current  
Charging voltage  
Voltage of PV panels  
Output voltage Grid voltage  
Power output in KW  
Energy delivered in Kwh

vi. MIMIC Diagram: To indicate power flow and operation of the charge controller/ battery charger; shall have provision for visual indications of existing power input/output through MIMIC diagram.

- Full Protection against polarity reversal of PV array and battery, Over Current, Short Circuit, Deep Discharge, Input Surge Voltage, open circuit, accidental short circuit and night time leakage of current from battery to module.
- Adequate protection shall also be incorporated under no-load conditions (i.e. when the system is ON & the load is removed).
- The PCU charge controller must be synchronize with Battery Management System (BMS). The PCU/ inverters should be tested from the MNRE / NABL/BIS /IEC accredited testing calibration laboratories. Vx. SURGE PROTECTION
- Internal surge protection shall consist of three MOV type surge arrestors connected from +ve and -ve terminals to earth (via Y arrangement) or other suitable devices should be provided.

vii. EARTHING PROTECTION

Each array structure of the PV yard and metal casing should be grounded/ earthed properly as per IS:3043 latest editions.

viii. Necessary earthing/ grounding is to be provided on the body of the inverter.

Note: The quality and standards of the system will be strictly adhering to the national/international standards specified as per MNRE Govt. of India norm.

#### 4. BALANCE OF SYSTEM (BOS) ITEMS/ COMPONENTS:

The BOS items / components of the SPV power plants/ systems deployed must conform to the latest edition of IEC/ Equivalent BIS Standards/ MNRE specifications / as specified below:

BOS Item/ System	Applicable BIS /Equivalent IEC Standard Or MNRE Specifications	
	Standard Description	Standard Number
Charge Controller/ MPPT units	Environmental Testing	IEC 60068-2 (1,2,14,30) / Equivalent BIS Std.
Power Conditioners/ Inverters**including MPPT and Protections.	Efficiency	IEC 61683 / IS 61683
	Measurements Environmental Testing	IEC 60068-2 (1, 2, 14, 30)/Equivalent BIS Std.
Storage Batteries	Lifepo4 (Lithium Ferro phosphate Battery)	IS 16270 /IS 16046 (Part 2): 2018/IEC 62133-2017/BIS standard
Cables	General Test and Measuring	IEC 60227 / IS 694
	Method PVC insulated cables for working voltage up to and including 1100 V and UV resistant for outdoor installation	IEC 60502 / IS 1554 (Pt. I & II)
Switches/Circuit	General Requirements	IEC 60947 part I,II, III /
Breakers/Connectors	Connectors safety	IS 60947 Part I,II,III
	A.C. /D.C.	EN 50521
Junction Boxes /Enclosures for inverters/ Charge Controllers/Luminaries	General Requirements	IP 54(for outdoor)/ IP 21(for indoor) as per IEC 529
Lighting Arrester	As per CEA Guideline	
Earthing	As per CEA Guideline	

\*\*In case if the Charge controller is in-built in the inverter, no separate IEC 62093 test is required and must additionally conform to the relevant national/international Electrical Safety Standards wherever applicable.

#### 5. Mounting Structure

The module & frame structure shall be mild steel, hot dipped galvanized (120 micron) with corrosion resistant painting for holding the PV modules.

ii. Each panel frame structure shall be so fabricated as to be grouted on ground on its legs. The size of angle iron/C channel should not be less than 40X40X5 mm. Anti-Theft Nut Bolts of SS (with washers) should be used for mounting modules for better theft proofing. Regarding civil structures, the bidder need to take care of the load bearing capacity of the roof and need arrange suitable structures based on the quality of roof.

- iii. The total load of the structure (when installed with PV modules) on the terrace should be less than 60 kg/m<sup>2</sup>. The minimum front clearance of the structure from the roof level should be 300 mm.
- iv. The legs of the structures made with hot dip GI angles will be fixed and grouted in the RCC foundation columns made with 1:2:4 cement concrete. The foundation should be as per design of structure to withstand maximum wind loading.
- v. There shall be a minimum air gap of 3+/- 0.3-cm between the facing edges of two adjacent modules on all sides.
- vi. Each panel frame structure shall have inclination between 20- 40 degrees depending on the site location seasonal load requirement. A weather proof junction box as per the relevant ISI specifications, to be provided where the module terminals shall be interconnected and output taken.
- vii. All nuts bolts and fasteners should be made of stainless steel.
- viii. The structure should be designed to allow easy replacement of any module and shall be aligned with site requirement.
- ix. The structure should be designed for simple mechanical and electrical installations. It will be designed to withstand severe cyclone/ storm with the speed max.150 Km/hr. as per IS 875 part 3.
- x. The systems should be installed at ground level / roof top at least the height of 45 Centimeter with a CC block of 30X30X30 Cm with each support.

## 6. Electrical connections

High quality ISI mark copper wires/cables of reputed makes are to be provided for connecting Solar Modules, from junction box to PCU, and Battery.

A suitable connection point shall be provided to the consumer from PCU, at a distance required as per site, from where consumer can use points.

**Wiring will be till end user point will be under the scope of bidder.**

## 7.. Junction Boxes:

The junction boxes for 5KW and above are to be provided in the PV array for termination of connecting cables. The J. Boxes (JBs) shall be made of polycarbonate/GRP/FRP/Powder Coated Aluminum/cast aluminum alloy with full dust, water & vermin proof arrangement. All wires/cables must be terminated through cable lugs. The JB's shall be such that input & output termination can be made through suitable cable glands. Copper bus bars/terminal blocks housed in the junction box with suitable termination threads conforming to IP65 standard and IEC 62208 Hinged door with EPDM rubber gasket to prevent water entry. Each Junction Box shall have High quality Suitable SPDs fuses on +ve side. Suitable Reverse Blocking Diodes. The Junction Boxes shall have suitable arrangement for disconnection for each of the groups.

Suitable markings shall be provided on the bus bar for easy identification and the cable ferrules must be fitted at the cable termination points for identification. DC DPBs shall have sheet from enclosure of dust & vermin proof conform to IP 65 for outdoor and IP54 for indoor protection. The bus bars are made of copper of desired size. Suitable capacity MCBs/MCCB shall be provided for controlling the DC power output to the PCU along with necessary surge arrestors AC Distribution Panel Board (DPB) shall control the AC power from PCU/ inverter, and should have necessary surge arrestors. All indoor panels will have protection of IP54 or better. All outdoor panels will have protection of IP65 or better should conform to Indian Electricity Act and rules (till last amendment).

Connecting cables PVC insulated copper cables (ISI marked) for: The cable should be used

as per site considering the maximum permissible loss up to 2%, however for 5 KW plant the minimum cable should be as follow.

Module interconnections (4.0 mm copper single core multi strand), Module parallel interconnection (10 mm copper single core multi strand) Array or AJB to PCU (16 mm copper two cores)

Battery to PCU (16 mm copper single core multi strand) might be double cables if required PCU to load / change over switch (Single core copper cable 6.0 mm multi strand) as per requirement of site.

ACDB: ACDB must have load mains change over switch for manual bypass.

## 8. DATA ACQUISITION SYSTEM / PLANT MONITORING

- i. Data Acquisition System shall be provided for each of the solar PV plant.
- ii. Data Logging Provision for plant control and monitoring, time and date stamped system data logs for analysis. Metering and Instrumentation for display of systems parameters and status indication to be provided.
- iii. Solar Irradiance: An integrating Pyrometer / Solar cell based irradiation sensor (along with calibration certificate) provided, with the sensor mounted in the plane of the array.

Readout integrated with data logging system.

iv. Temperature: Temperature probes for recording the Solar panel temperature and/or ambient temperature to be provided complete with readouts integrated with the data logging system

v. The following parameters are accessible via the operating interface display in real time separately for solar power plant:

- a. AC Voltage.
- b. AC Output current.
- c. Output Power
- d. Power factor.
- e. DC Input Voltage.
- f. DC Input Current.
- g. Time Active.
- h. Time disabled.
- i. Time Idle.
- j. Power produced

The PCU should have data logging facilities for BMS also in order to monitor the performance of battery. Data Acquisition System shall be provided for each of the solar PV plant, plant monitoring will be remote through web based GPRS Monitoring. Also the data shall be recorded in a common work sheet chronologically data wise. The data file shall be MS Excel compatible. Remote Server and Software for centralized internet monitoring system shall be also provided for download and analysis of cumulative data of all the plants and the data of the solar radiation and temperature monitoring system.

## 9. INSTALLATION OF SYSTEM:

The system should be properly installed at site. The SPV module mounting structure should be properly grouted depending upon the location and requirement of the site. The grouting should be such that it should withstand the maximum wind speed / storm.

Adequate space should be provided behind the PV module/array for allowing unobstructed air flow for passive cooling. Cables of appropriate size should be used to keep electrical losses to a bare minimum. Care should be taken to ensure that the battery is placed with appropriate leveling on a structurally sound surface. All wiring should be in a proper conduit or capping case. Wire should not be hanging loose. Any minor items which are not specifically included in the scope of supply but required for proper installation and efficient operation of the Solar Power Generator/Plant system are to be provided by the manufacturer as per standards.

#### **10. ELECTRIC CABLE**

All the cables shall be supplied conforming to IEC 60227- IS 694 / IS 1554 - IS / IEC 60502 shall be of 650 V/ 1.1kV grade as per requirement. Only PVC copper cables shall be used.

#### **11. WARRANTY**

The mechanical structures, electrical works including power conditioners/inverters/charge controllers/ maximum power point tracker units/distribution boards/digital meters/ switchgear/ storage batteries, etc. and overall workmanship of the SPV power generator/Plant system must be warranted against any manufacturing/ design/ installation defects for a minimum period of 7 years.

#### **12. TRACEABILITY OF THE PRODUCT TO BE SUPPLIED**

In order to prevent the misuse of the product such as unauthorized sale or diversion to the openmarket, the following incorporation shall be made in the product.

- a) Engraving (or) Screen printing of URNEDA at a suitable place on the main components viz SPV Panel, battery, PCU to be used in the installation of the solar power pack.
- b) The unique system ID number as provided by NEW AND RENEWABLE ENERGY DEPARTMENT shall be permanently pasted (or)marked on each component of the system.

*Make of Items must be as per the BIS/ MNRE technical specification and equivalent make offered by the bidders in the Bid. The Bidders may change the make of items with the permission of competent authority of NEW AND RENEWABLE ENERGY DEPARTMENT as and when required on valid circumstances conditions, the bidder shall provide Test Certificate of the proposed make of item issued from MNRE authorized testing center or NABL accredited test lab.*

#### **13. Lighting Arrester and Earthing**

The installation of the Lighting Arrester and earthing as per CEA Guideline.

#### **14. Cabinet**

A Suitable cabinet for Battery & PCU safety of Children.

#### **15. Sign Board**

Each Site after Commission of Plant Fix a Sign Board Where Write all Information of Plant, Do, Doesn't, Service Center Contact Number.

**The scope of work also includes mandatory opening of at least one Service Center in the Division of installations in Haryana through which servicing and maintenance should be provided as stipulated quarterly in a year and also within 72 hours.**

**TIE UP CERTIFICATE**

(from Manufacturer on the letter head of the manufacturer)

We undertake to supply \_\_\_\_\_ (inverters/PCU/Battery/indigenously manufactured modules), confirming the specifications as per DNIT/tender no. .... Invited by Supplies & Disposals Department Haryana to the ..... (name of bidder) for New and Renewable Energy Dept./ HAREDA requirement as and when ordered by the bidder.

Dated:

Authorized Signatory  
(with Seal)

DRAFT

**UNDERTAKING BY MANUFACTURER OF PV MODULE/INVERTER/PCU/BATTERY  
(on Non Judicial Stamp Paper of Rs. 10/-)**

I ----- (Name of Authorized person) \_\_\_\_\_  
(designation in the manufacturer company) on behalf of M/s. -----  
----- (Manufacturer of Solar Module/  
/Inverter/PCU/battery), A company incorporated under the Companies Act, 1956, having its  
registered office at -----  
and Factory at ----- (hereafter called the Company) has given the undertaking  
as under:

1. M/s. ----- (System Integrator)  
Represented by ----- A company incorporated  
under the Companies Act, 1956, having its registered office at -----  
----- (hereafter called the system integrator) is hereby authorized to install  
the product / device..... (Solar Module/Inverter/Battery) manufactured  
by the Company, in the State of Haryana in reference to the tender no.  
..... invited by DGS& D Haryana for New & Renewable Energy  
Department/HAREDA for supply and installation of the GCRT Solar Power Plant, if name  
of System Integrator is finalized in the rate contract and orders are received.
2. In case System Integrator defaults at any stage of execution of warrantee/guarantee/CMC  
and after sale service of the said device, installed in reference to rate contract of the said  
tender, then the Company will be responsible to execute the warrantee/guarantee/CMC of  
the product/ device ..... (Solar Module/Inverter/Battery) supplied by us  
at site of installation as per the terms and conditions of rate contract/DNIT of the above  
tender.
3. In case System Integrator defaults, the Company will adhere the directions of the New &  
Renewable Energy Department/HAREDA directly.

DATED:

Sign.: .....  
Name of Authorized person: .....  
Designation of Auth. Person: .....  
Name of Manufacturer Company .....  
With seal

**SCHEDULE OF EXPERIENCE (Supply & Installation)**

S. No.	Details of Off-Grid/ GRID Connected Solar Power Plant from 01.04.2023 to the last date of submission of Bid.	Year	Deptt/ Agency/ Beneficiary for which work carried out	Size of Work in (kW)	Cost of works in Amount (Rs Lakhs)	Copy of Work Order, Completion
1						
2						

**(Signature of Bidder) Seal**

**NOTE:** All above information and details must be mentioned by the bidder. But without work completion certificates (JCRs) /satisfactory performance certificates from the users verified, bid will not be considered. NRE/HAREDA may cross check the authenticity of the above documents with the issuing authority.

**INFORMATION IN SUPPORT OF MEETING ESSENTIAL ELIGIBILITY  
CONDITIONS REGARDING AVERAGE ANNUAL TURNOVER OF THE BIDDER IN  
LAST THREE FINANCIAL YEAR ENDING 31.3.2026**

**Annual turnover of the bidder in last three financial years:**

Name of Bidder:

Annual turnover data for last three years ending on <b>31<sup>st</sup> March 2026</b>			
S.No.	Year	Turnover (Rs. in Lacs)	Turnover Rupees in words
1.	2023-24		
2.	2024-25		
3.	2025-26		
4.	Average turnover in last three years ending on <b>31<sup>st</sup> March 2026</b> $= (1+2+3)/3$		

Signature with seal of bidder

Dated:

Signature of Chartered Accountant with seal

Name \_\_\_\_\_

Name of CA Company: \_\_\_\_\_

M.No. \_\_\_\_\_

**Note:**

1. Bidder must complete the information in this form.
2. The information provided shall be certified by Chartered Accountant.

**NET WORTH (FINANCIAL CAPABILITY)**

Name of bidder
----------------

Financial information (Rs. In Lakhs)	Actual: For financial year <b>2023-24</b> (Rs. In Lakhs)	Actual: For financial year <b>2024-25</b> (Rs. In Lakhs)	Actual: For financial year <b>2025-26</b> (Rs. In Lakhs)
Total assets			
Current assets			
Total liabilities			
Current liabilities			
Profits before taxes			
Profits after taxes			
<b>Net worth</b> (Paid up share capital + reserves & surplus)			
Average <b>Net worth</b> for last Three Years			
Net worth is Positive or Negative			

It is certified that the bidder not suffered losses for any reasons whatsoever in last three Financial Years.

Signature with seal of bidder

Signature with seal of  
Chartered Accountant

Name:

M.No.

1. Bidder must fill in the form.
2. The statement of Net Worth is to be certified by a Chartered Accountant.

## GENERAL PARTICULARS OF BIDDER

Bid for Supply, Installation and Commissioning of Off- Grid Solar Power Plants, including comprehensive maintenance i.e. warranty for 07 years from the date of commissioning in Haryana.

1.	Name of firm	
2.	Postal Address	
3.	Telephone/Telex,/FaxNo	
4.	E-mail	
5.	Website	
6.	<b>Category of Bidder/</b> Company incorporated in India under the Companies Act, 1956 or 2013 including any amendment thereto or proprietary/partnership firm/LLP firm <i>A copy of certificate of incorporation shall be furnished along with the bid in support of above.</i>	
7.	Whether, the bidder ( <b><u>manufacturer of solar module/inverter/PCU/solar cell/LiFePO<sub>4</sub> battery/ LiFePO<sub>4</sub> cells in Haryana</u></b> ) is any one of the following: (i) Manufacturing Micro & Small Enterprises (including Khadi & Village Industries) or (ii) Manufacturing Medium Enterprises (including Khadi & Village Industries)  <i>If, the bidder Manufacturing Small &amp; Medium Enterprises (including Khadi &amp; Village Industries) or Manufacturing Micro Enterprises (including Khadi &amp; Village Industries), then please mention the device/item (<b><u>solar module/inverter-cum-PCU/ solar cell/ LiFePO<sub>4</sub> battery/ LiFePO<sub>4</sub> battery cells</u></b>) for which it is registered in Haryana. A copy of certificate of Entrepreneurs Memorandum/UDYOG AADHAR issued by Industry Department, Haryana should be furnished along with the bid in support of above.</i>	

8.	The bidder should have also a valid ISO 9001:2015 Certificate issued from any NABCB accredited certification body in the field of quoted item and copy of valid ISO 9001:2015 Certificate must be attached with offer.	
9.	Name of Directors of Company (at least Two directors with email IDs & contact Numbers)	(i) ..... (ii) .....
10.	Name & designation of the authorized signatory to whom reference shall be made	
11.	Present activities/business of the firm i. Solar Module/Cell Manufacturer ii. Inverter Manufacturer iii. Battery/ Battery Cell Manufacturer iv. System Integrator	
12.	Registration number	
	GST No.	
	PAN	
	TAN	
13.	Place & State of billing	
14.	Have the contractor/ firm/firms having common Director ever been debarred by any Govt. Deptt. /Public Sector Undertakings for undertaking any work?	
15.	Monthly capacity of supply, installation & commissioning of the systems.	
16.	Bid offered for Capacity (Bidder has to bid for full capacity)	..... kWp
17.	Average annual turnover of the bidder for the last three years (Rs. in Lakh)	
18.	The bidder have positive net worth in the previous Financial Year. (Yes/No)	
19.	Experience of the bidder in terms of capacity installed in kWp (verified by any Govt. department/organisation)	-----kWp
20.	Make(s) of Modules offered for the system: (Also upload Certificate as required in Para-D of the tender document)  (Upload Tie up certificates)	i. ...., ii. .... iii. .... iv. .... v. ....
21.	Make(s) of Inverters/PCU offered for the system:	i. ...., ii. .... iii. ....

	(Also upload Certificate as required in Para-D of the tender document)  (Upload Tie up certificates)	iv. .... v. ....
22.	Make(s) of Battery offered for the system:  (Also upload Certificate as required in Para-D of the tender document)  (Upload Tie up certificates)	i. ...., ii. .... iii. .... iv. .... v. ....
23.	Name of the any close/ near relative of any employee/ office bearer/ management of bidder company working in New & Renewable Energy Department, Haryana or HAREDA	Name Designation Place of Posting Relationship
24.	Any Other Information	

*We solemnly declare that we are aware of binding provisions of the ALMM Order of MNRE and the List(s) thereunder.*

*We solemnly declare that we will abide by any penal action such as disqualification or black listing or termination of contract or any other action deemed fit, taken by, the Nodal agency against us, if it is found that the information, statements, documents, certificates produced by us are false / fabricated or any information is concealed therein.*

**Date**  
**With SEAL**

**(Signature of Bidder)**

**TECHNICAL BID**

**Name of work: Supply, Installation and Commissioning with 7 years Warranty of (1 Kilowatt, 2 Kilowatt, 3 Kilowatt) Off-Grid Solar Power Plants**

**To be submitted with the Technical Bid**

	<b>Description</b>	<b>To be furnished by the Contractor/Bidder</b>	
A	<b>Solar PV Module</b>		
	Type of Module:		
	Manufacturer of cell		
	Manufacturer of Module		
	Max power at STC Pmax (W)		
	Voltage at Max power Vmp(V)		
	Current at Max power Imp(A)		
	Open circuit voltage Voc (V)		
	Short circuit current Isc (A)		
	Module efficiency		
	Cell efficiency		
	Fill factor		
B	<b>AC Hybrid Solar Power Conditioning Unit</b>		
	Manufacturer :		
	Type String type/central		
	Operating voltage (DC)		
	Operating voltage AC (pure sine wave)		
	Details of Indicators provided		
	Details of Protections provided		
	Battery Over charge set value		
	Deep discharge set value		
	Others		
C	<b>Battery</b>	<b>Li Fe Po4</b>	
	Manufacturer		
	Type		
	Capacity of Battery at C1/10 rate		
	Max DOD		

**Note- All above information must be mentioned by the bidder, otherwise the bid may get rejected.**

(Signature of Bidder)  
with seal

**FORMAT FOR WARRANTEE/ GUARANTEE CARD TO BE SUPPLIED WITH EACH  
SOLAR PV POWER PLANT**

1	Name & Address of the Manufacturer /Supplier	
2	Name & Address of the Purchasing Agency	
3.	Name & Address of the User	
3	Capacity of the Solar Power Plant & Date of Commissioning of Plant	
4.	<b><u>PV Module</u></b> a) Make b) Model c) Serial No d) Wattage under STC e) Warrantee/ Guarantee valid up to	
5	<b><u>Battery</u></b> a) Make b) Model c) Batch / Serial No d) Rated V & AH capacity at C/10 e) Warrantee/ Guarantee valid up to	
6	<b><u>Inverter/ PCU</u></b> a) Make b) Model c) Serial No d) Warrantee/ Guarantee valid up to	
7	<b><u>Other B.O.S.</u></b> Make & No.	
8	Designation & Address of the person to be contacted for claiming Warrantee/ Guarantee obligations	

Place:  
Date:

(Signature)  
Name  
Designation  
Name & Address of the  
Manufacturer(Bidder)(SEAL)

## DECLARATION BY THE BIDDER REGARDING QUALIFICATIONS

**In relation to my/our Bid submitted to DS&D in response to their Notice Inviting Bids for Supply, installation and commissioning of Off-Grid Solar Power Plant in Haryana hereby declare that:**

1. I/we possess the necessary professional, technical, financial and managerial resources and competence required by the Bidding Document issued by the Procuring Entity;
2. I/we have fulfilled my/our obligation to pay such of the taxes payable to the Union and the State Government or any local authority as specified in the Bidding Document;
3. I/we are not insolvent, in receivership, bankrupt or being wound up, not have my/our affairs administered by a court or a judicial officer, not have my/our business activities suspended and not the subject of legal proceedings for any of the foregoing reasons;
4. I/we do not have, and our directors and officers not have, been convicted of any criminal offence related to my/our professional conduct or the making of false statements or misrepresentations as to my/our qualifications to enter into a procurement contract within a period of three years preceding the commencement of this procurement process, or not have been otherwise disqualified pursuant to debarment proceedings;
5. I/we do not have a conflict of interest as specified in the Act, Rules and the Bidding Document, which materially affects fair competition;

SIGNATURE OF AUTHORISED  
SIGNATORY OF THE BIDDER  
WITH SEAL

Date:

Name:

Designation:

Address: